

Product datasheet for **MG205662**

Apoa5 (NM_080434) Mouse Tagged ORF Clone

Product data:

Product Type: Expression Plasmids
Product Name: Apoa5 (NM_080434) Mouse Tagged ORF Clone
Tag: TurboGFP
Symbol: Apoa5
Synonyms: 1300007O05Rik; Apoav; RAP3
Mammalian Cell Selection: Neomycin
Vector: pCMV6-AC-GFP (PS100010)
E. coli Selection: Ampicillin (100 ug/mL)
ORF Nucleotide Sequence: >MG205662 representing NM_080434
 Red=Cloning site Blue=ORF Green=Tags(s)

TTTTGTAATACGACTCACTATAGGGCGGCCGGAATTCGTCGACTGGATCCGGTACCGAGGAGATCTGCC
 GCC**CGATCGCC**

ATGGCTGCAGTCATCACTTGGGCCCTCGCCCTCCTCGCAGTGTTTCGAAGCACTCAGGCACGGAAGAGCC
 TCTGGGACTACTTCAGCCAAAACAGTTGGAGCAAAGGCGTGATGGGCCAGCCACAGAAGCTGGCACAGGA
 GAACCTGAAAGGCAGCTTCGAGCAAGACCTCTACAATATGAACAATTACCTAGAAAAGCTGGGACCCTTG
 AGAGGGCCTGGGAAGGAGCCTCCTCTGCTGGCCCAGGACCCAGAAGGCATTTCGGAACAGCTGCAGCAGG
 AGCTGGGGGAAGTGAGCTCGCGCCTGGAGCCCTACATGGCTGCGAAGCACCAGCAGGTAGGCTGGAACCT
 GGAGGGCCTGAGGCAGCAGTTGAAACCCTACACGGCGGAGCTGATGGAGCAGGTGGGCCTGAGTGTGCAG
 GAGCTGCAGGAGCAGCTGCGCGTGGTGGGAGAAGACACCAAGGCTCAGCTCCTGGGGGGCGTGGACGAGG
 CGCTGAACCTGTGCAGGACATGCAGAGTCGAGTGCTGCACCATACCGACCGAGTCAAAGAGCTCTTCCA
 CCCTTACGCAGAACGCTTGGTGACTGGAATTGGGCACCACGTGCAGGAGCTGCACCGCAGTGTGCGTCTCT
 CACGCAGCTGCCAGCCCCGCGGACTCAGTCGCTGCGTGACAGCTCTGTCCCACAACTCACACGTAAGG
 CGAAGGACCTGCACACCAGCATCCAACGCAACCTGGACCAGCTGCGCGATGAGCTCAGTGCCTTCATCCG
 CGTCAGCACAGATGGGGCGGAAGATGGAGATTCCTGGACCCTCAGGCTCTCTCCGAGGAGGTCCGCCAG
 AGACTGCAGGCTTTTCGGCATGACACCTACCTGCAGATTGCTGCATTTACTCAGGCCATTGACCAGGAGA
 CAGAGGAAATTCAGCACAGCTAGCCCCACCCCGCCTAGCCACAGCGCCTTCGCTCCTGAGCTGGGACA
 CTAGACAGTAATAAGGCCCTGAGCAGACTGCAGAGCCGACTGGACGACCTGTGGGAAGATATTGCCTAT
 GCCTTCAAGACCAGGTCATAGTCATTTGAGTGACCCTGAGGCTCACTCCGGT

ACCGTACGCGGCCGCTCGAG - GFP Tag - GTTTAA



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Protein Sequence: >MG205662 representing NM_080434
 Red=Cloning site Green=Tags(s)

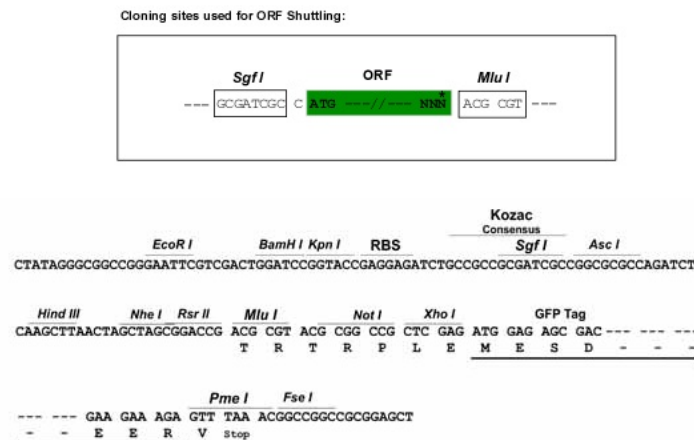
MAAVITWALALLAVFASTQARKSLWDYFSQNSWSKGMGPQKLAQENLKGSFEQDLNMNNYLEKLGPL
 RGPGEKPELLAQDPEGIRKQLQELGEVSSRLEPYMAAKHQQVGNLEGLRQQLKPYTAELMEQVGLSVQ
 ELQEQLRVVGEDTKAQLLGGVDEALNLLQDMQSRVLLHHTDRVKELFHPYAERLVTGIGHHVQELHRVAP
 HAAASPARLSRCVQTLSHKLTRKAKDLHTSIQRNLDQLRDEL SAF IRVSTDGAEDGDSLDPQALSEEVRQ
 RLQAFRHDTYLQIAAFTQAIDQETEEIQHQLAPPPPSHSAFAPELGHSDSNKALSRLQSRLLDDLWEDIAY
 GLQDQGHSHLSDPEGHSG

TRTRPLE - GFP Tag - V

Chromatograms: https://cdn.origene.com/chromatograms/ja1910_b06.zip

Restriction Sites: SgfI-MluI

Cloning Scheme:



ACCN: NM_080434

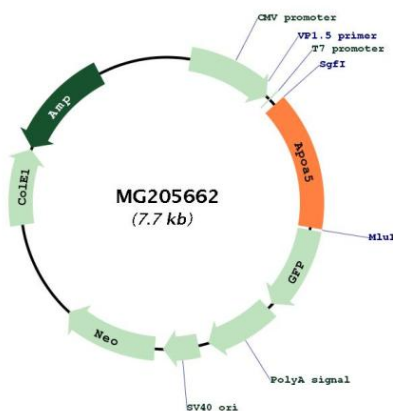
ORF Size: 1104 bp

OTI Disclaimer: Due to the inherent nature of this plasmid, standard methods to replicate additional amounts of DNA in *E. coli* are highly likely to result in mutations and/or rearrangements. Therefore, OriGene does not guarantee the capability to replicate this plasmid DNA. Additional amounts of DNA can be purchased from OriGene with batch-specific, full-sequence verification at a reduced cost. Please contact our customer care team at custsupport@origene.com or by calling 301.340.3188 option 3 for pricing and delivery.

The molecular sequence of this clone aligns with the gene accession number as a point of reference only. However, individual transcript sequences of the same gene can differ through naturally occurring variations (e.g. polymorphisms), each with its own valid existence. This clone is substantially in agreement with the reference, but a complete review of all prevailing variants is recommended prior to use. [More info](#)

OTI Annotation:	This clone was engineered to express the complete ORF with an expression tag. Expression varies depending on the nature of the gene.
Components:	The ORF clone is ion-exchange column purified and shipped in a 2D barcoded Matrix tube containing 10ug of transfection-ready, dried plasmid DNA (reconstitute with 100 ul of water).
Reconstitution Method:	<ol style="list-style-type: none">1. Centrifuge at 5,000xg for 5min.2. Carefully open the tube and add 100ul of sterile water to dissolve the DNA.3. Close the tube and incubate for 10 minutes at room temperature.4. Briefly vortex the tube and then do a quick spin (less than 5000xg) to concentrate the liquid at the bottom.5. Store the suspended plasmid at -20°C. The DNA is stable for at least one year from date of shipping when stored at -20°C.
RefSeq:	NM_080434.4
RefSeq Size:	2321 bp
RefSeq ORF:	1107 bp
Locus ID:	66113
UniProt ID:	Q8C7G5
Cytogenetics:	9 A5.2
Gene Summary:	Minor apolipoprotein mainly associated with HDL and to a lesser extent with VLDL. May also be associated with chylomicrons. Important determinant of plasma triglyceride (TG) levels by both being a potent stimulator of apo-CII lipoprotein lipase (LPL) TG hydrolysis and an inhibitor of the hepatic VLDL-TG production rate (without affecting the VLDL-apoB production rate). Activates poorly lecithin:cholesterol acyltransferase (LCAT) and does not enhance efflux of cholesterol from macrophages (By similarity).[UniProtKB/Swiss-Prot Function]

Product images:



Circular map for MG205662